



# Fisk & Crawford Former Power Plants





# Background

Activity	Date
PERRO/LVEJO meeting	August 30
CLC letter outlining concerns	September 18
Concept proposed	October 10
Draft work plan	November 21
Community Fact Sheet	November 29
Monitoring conducted	December 3-6
Present results	February



# Key Questions

- Are elevated levels of dust blowing into the surrounding community from the sites?
- Do people in communities surrounding the plants have higher levels of radiation exposure compared to communities not near the plants?



# Work Plan Objectives

- Collect perimeter particulate readings (normal conditions)
- Collect perimeter particulate readings (abnormal conditions)
- Collect meteorological data (temp, wind speed/direction, pressure)
- Collect real-time gamma radiation screening readings with GPS
  - Surrounding neighborhoods & compare



# Participants

U.S. EPA (Superfund, Brownfields, ARD, LCD)

Weston Solutions, Inc.

Illinois EPA

ATSDR/CDC

Illinois Department of Public Health

City of Chicago Bureau of Environmental Health & Safety Management

PERRO

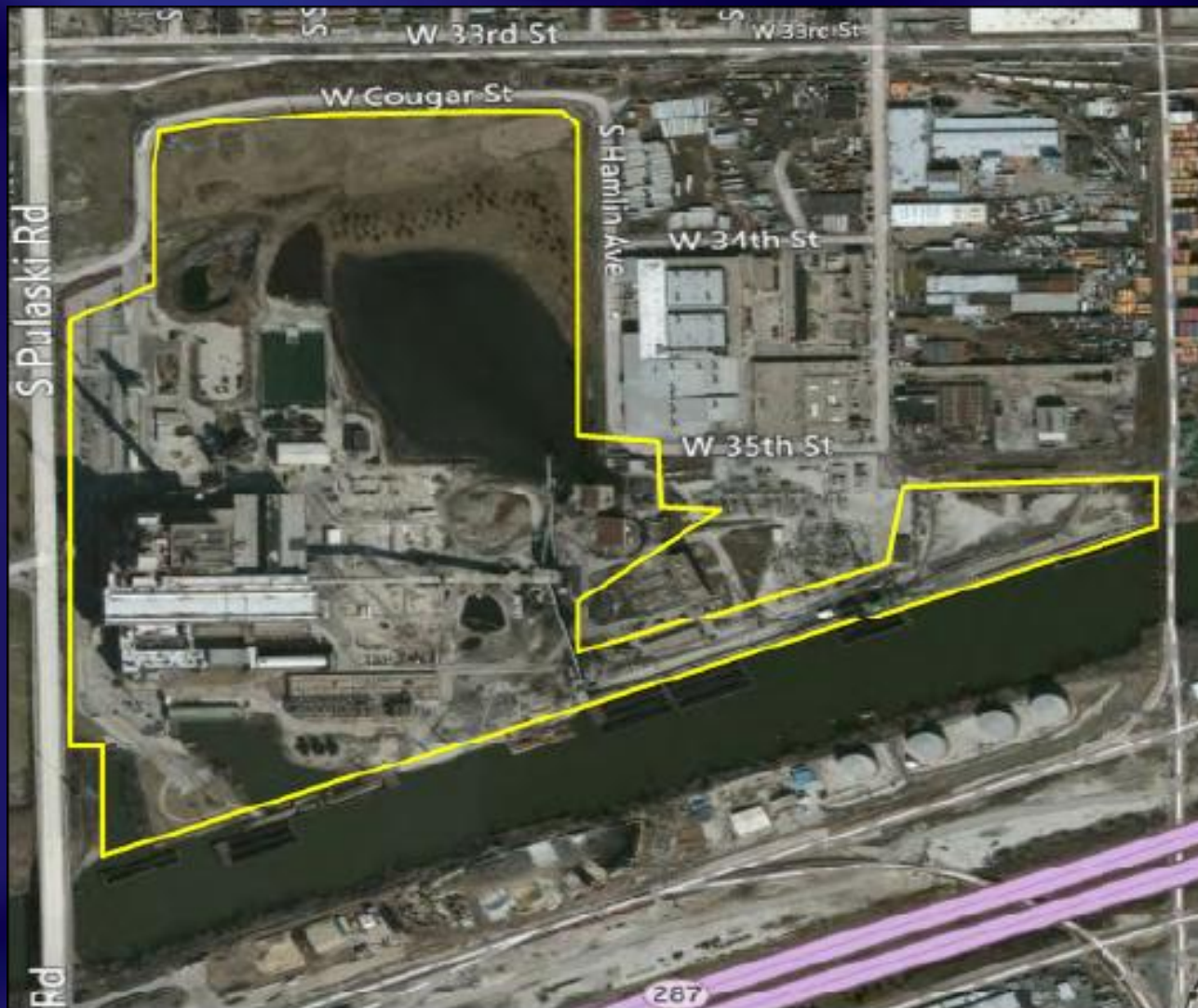
LVEJO

Midwest Generation, LLC





# Crawford Property Boundary





# Around Crawford







# Around Crawford



Data Ram #3 - December 5<sup>th</sup> at 10:23am





# Inside Crawford



Coal Pile Storage Area



# Fisk Property Boundary











# Around Fisk





# Stationary Particulate Data





# Particulates

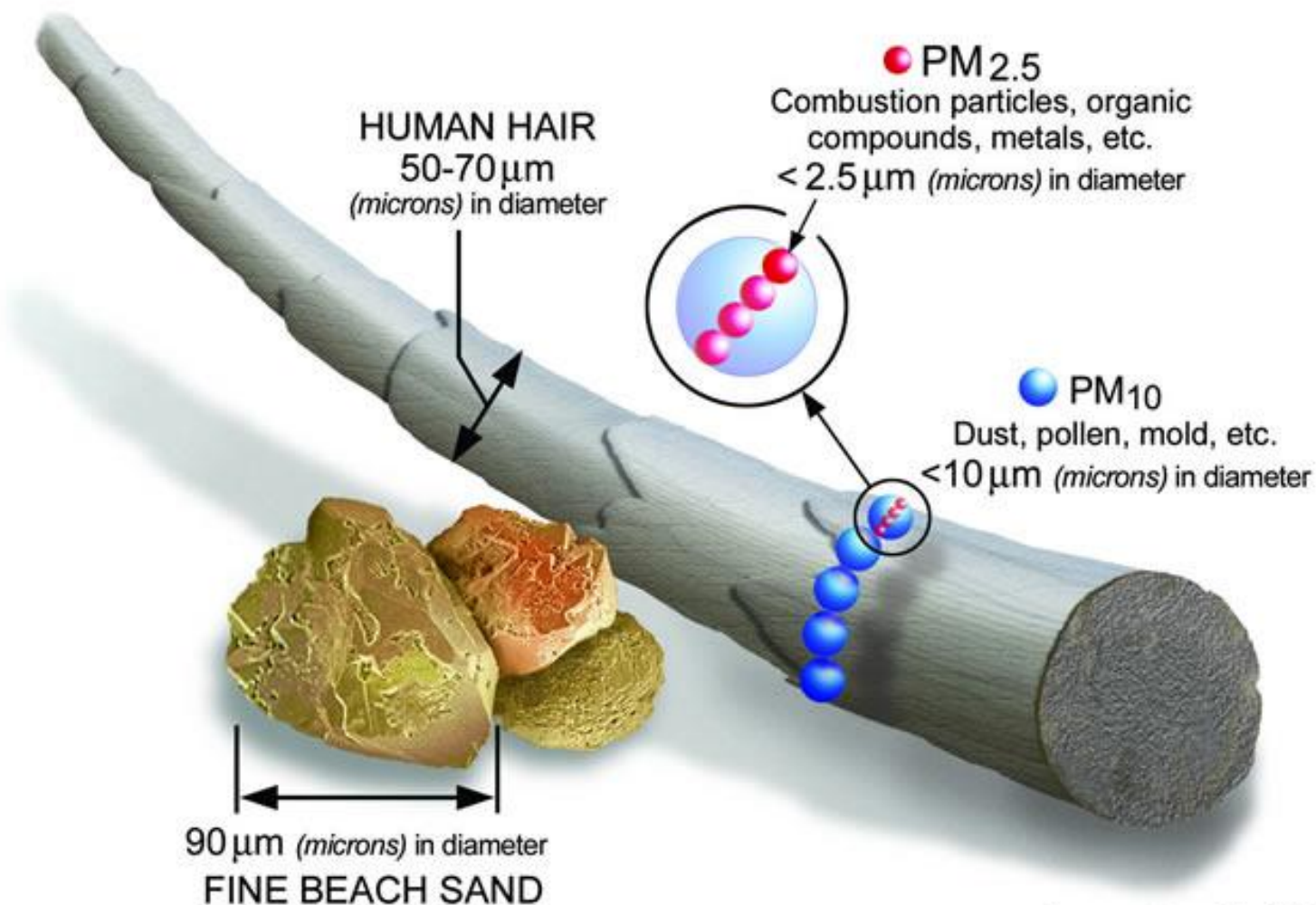


Image courtesy of the U.S. EPA





# Stationary Data - Crawford

Date	Time	Weather Information <sup>1</sup>					Particulate TWA ( $\mu\text{g}/\text{m}^3$ )			
		Temperature (°F)	Barometer (inches)	Relative Humidity (%)	Originating Wind Direction	Wind Speed (mp h)	Location			
							Dataram 1	Dataram 2	Dataram 3	Dataram 4
December 3, 2012 <sup>2</sup>  <b>DAY 1</b> Mist – AM Wind – PM Warm	10:00 a.m.	62.8	29.61	73	S	13	77.2	84.1	96.3	96.2
	11:00 a.m.	64.2	29.88	73	S	11	69.5	77.5	89.5	88.7
	12:00 p.m.	67.1	29.84	69	S	12	61.4	69.8	80.6	79.5
	1:00 p.m.	71.1	29.81	61	S	17	52.7	60.4	71.9	68.8
	2:00 p.m.	71.1	29.78	60	S	21	45.5	52.4	62.8	59.4
	3:00 p.m.	71.1	29.77	58	S	20	39.8	46.2	55.7	52.0
	4:00 p.m.	70.0	29.81	61	SSW	17	35.4	41.4	50.4	46.2
	5:00 p.m.	68.0	29.80	63	SSW	15	32.2	37.9	46.7	41.9
	6:00 p.m.	66.9	29.81	62	SSW	23	31.4	37.7	--	41.8
Average		68.0	29.79	64	SSW	17	49.5	56.4	69.2	63.8
December 5, 2012 <sup>3</sup>  <b>DAY 3</b> Clear Calm Cold	9:00 a.m.	36.4	29.70	39	NE	3	4.4	15.4	8.4	7.7
	10:00 a.m.	37.8	29.74	45	NNE	3	4.2	11.6	9.1	5.7
	11:00 a.m.	38.1	29.75	47	NNE	5	4.3	12.6	8.5	4.7
	12:00 p.m.	43.7	29.74	47	ENE	3	4.9	11.7	8.1	4.5
	1:00 p.m.	45.2	29.74	45	ESE	2	5.3	10.2	7.3	4.4
	2:00 p.m.	42.9	29.71	45	ENE	3	6.1	9.3	6.9	4.3
	3:00 p.m.	39.6	29.67	46	ENE	2	6.5	8.4	7.2	4.0
	4:00 p.m.	37.0	29.66	49	ENE	2	7.2	7.9	4.0	3.8
	5:00 p.m.	40.5	29.62	54	NE	0	7.2	7.6	4.5	4.0
Average		40.1	29.70	46	ENE	3	5.6	10.5	7.1	4.8



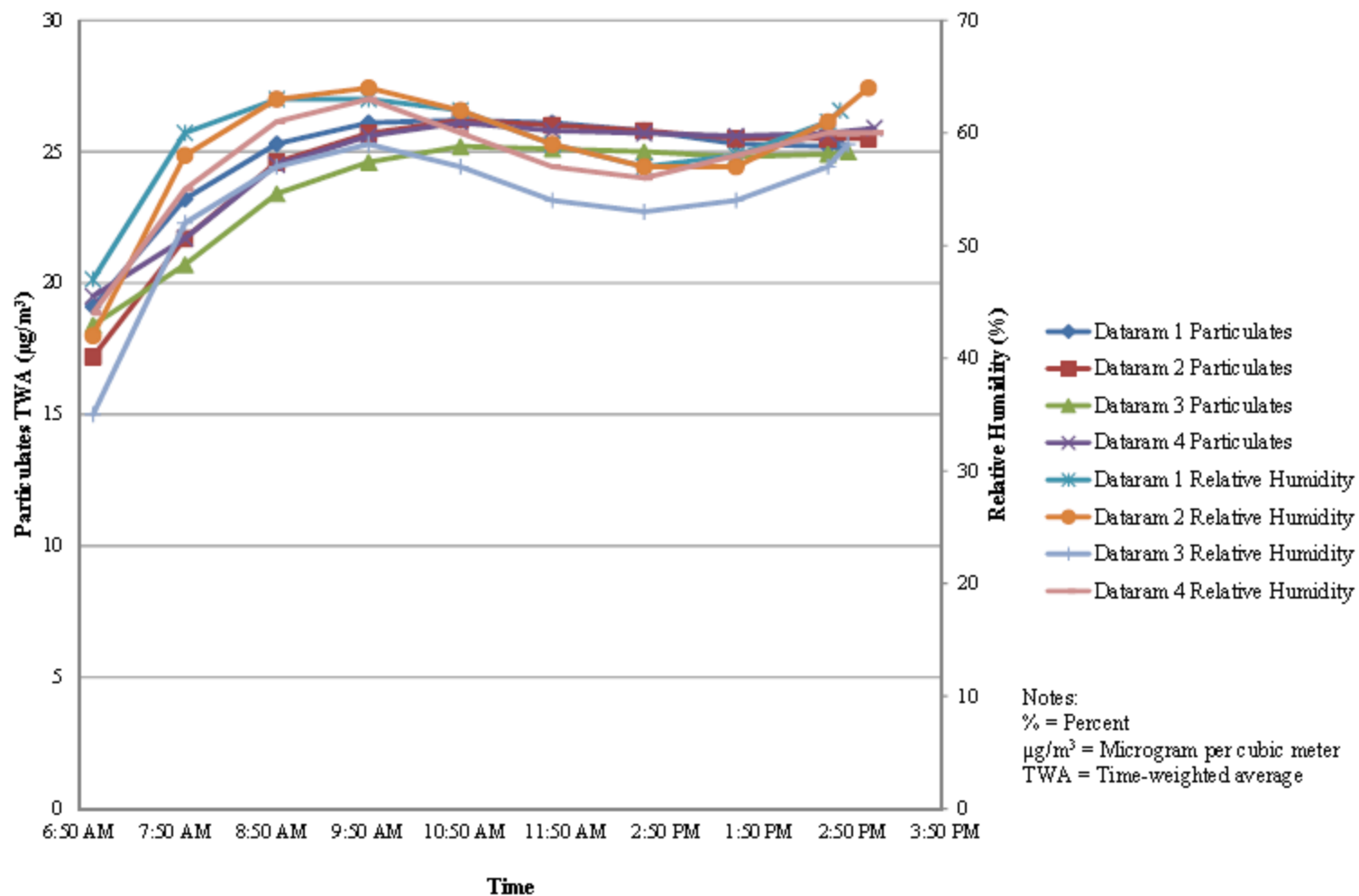
# Stationary Data - Fisk

Date	Time	Weather Information <sup>1</sup>					Particulate TWA ( $\mu\text{g}/\text{m}^3$ )			
		Temperature (°F)	Barometer (inches)	Relative Humidity (%)	Originating Wind Direction	Wind Speed (mph)	Location			
							Dataram 1	Dataram 2	Dataram 3	Dataram 4
December 4, 2012 <sup>2</sup>  <b>DAY 2</b> Sun Wind Warm Wind shift	9:00 a.m.	52.3	30.00	40	SSW	8	4.0	5.8	7.5	8.2
	10:00 a.m.	57.9	30.14	36	WSW	4	3.9	5.6	6.5	8.2
	11:00 a.m.	55.7	29.58	35	WSW	4	3.7	5.3	5.9	7.8
	12:00 p.m.	54.6	30.00	35	ESE	9	3.3	4.9	5.3	7.3
	1:00 p.m.	57.6	29.70	33	SW	6	3.0	4.8	5.0	7.0
	2:00 p.m.	58.4	30.69	33	SSW	6	2.9	4.9	5.0	6.8
	3:00 p.m.	57.8	29.77	34	WSW	7	2.8	4.8	4.8	6.8
	4:00 p.m.	55.9	29.80	38	SE	4	2.8	4.8	4.8	6.7
	5:00 p.m.	55.1	29.96	41	ESE	6	2.9	4.8	4.9	6.8
Average		56.1	29.96	36	WSW	6	3.3	5.1	5.5	7.3
December 6, 2012 <sup>3</sup>  <b>DAY 4</b> Calm Cold	7:00 a.m.	35.5	29.44	42	SSE	3	19.1	17.2	18.4	19.5
	8:00 a.m.	35.5	29.44	56	SSE	2	23.2	21.7	20.7	21.7
	9:00 a.m.	37.3	29.43	61	SSW	3	25.3	24.6	23.4	24.5
	10:00 a.m.	39.9	29.43	62	SSW	2	26.1	25.7	24.6	25.6
	11:00 a.m.	42.8	29.37	60	SSW	3	26.2	26.2	25.2	26.1
	12:00 p.m.	45.0	29.36	57	SSW	3	26.1	26.0	25.1	25.8
	1:00 p.m.	45.6	29.31	56	SSW	3	25.8	25.8	25.0	25.7
	2:00 p.m.	45.7	29.26	57	SSW	3	25.3	25.5	24.8	25.6
	3:00 p.m.	45.6	29.26	60	SSE	3	25.2	25.5	24.9	25.7
	4:00 p.m.	44.9	29.26	61	SSE	3	25.2	25.5	25.0	25.9
Average		41.8	29.36	57	SSW	3	24.8	24.4	23.7	24.6

All data points at <https://r5imt.net/pilsen/>



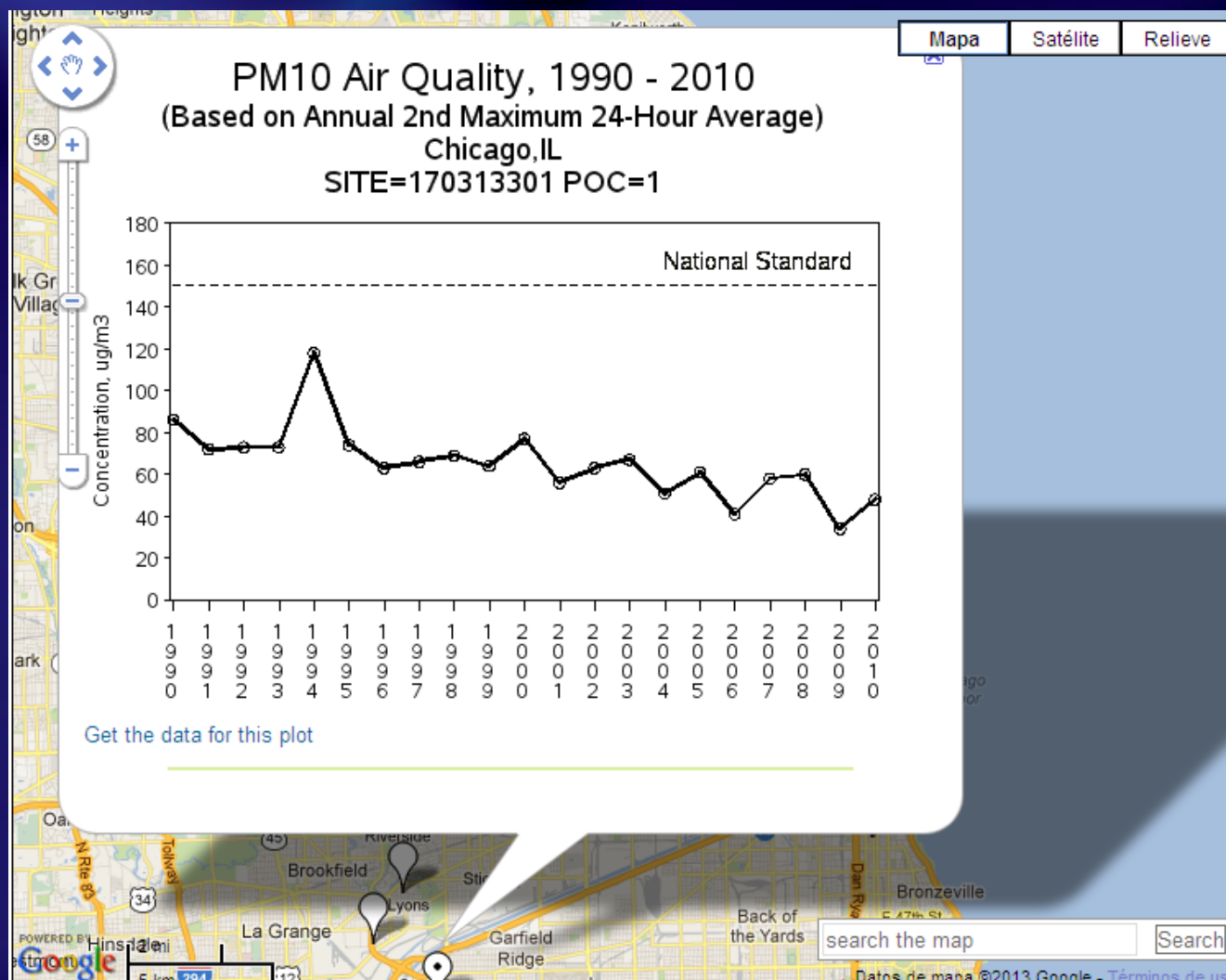
# Particulate & Relative Humidity







# Regional Particulate Data



<http://www.epa.gov/airtrends/pm.html>

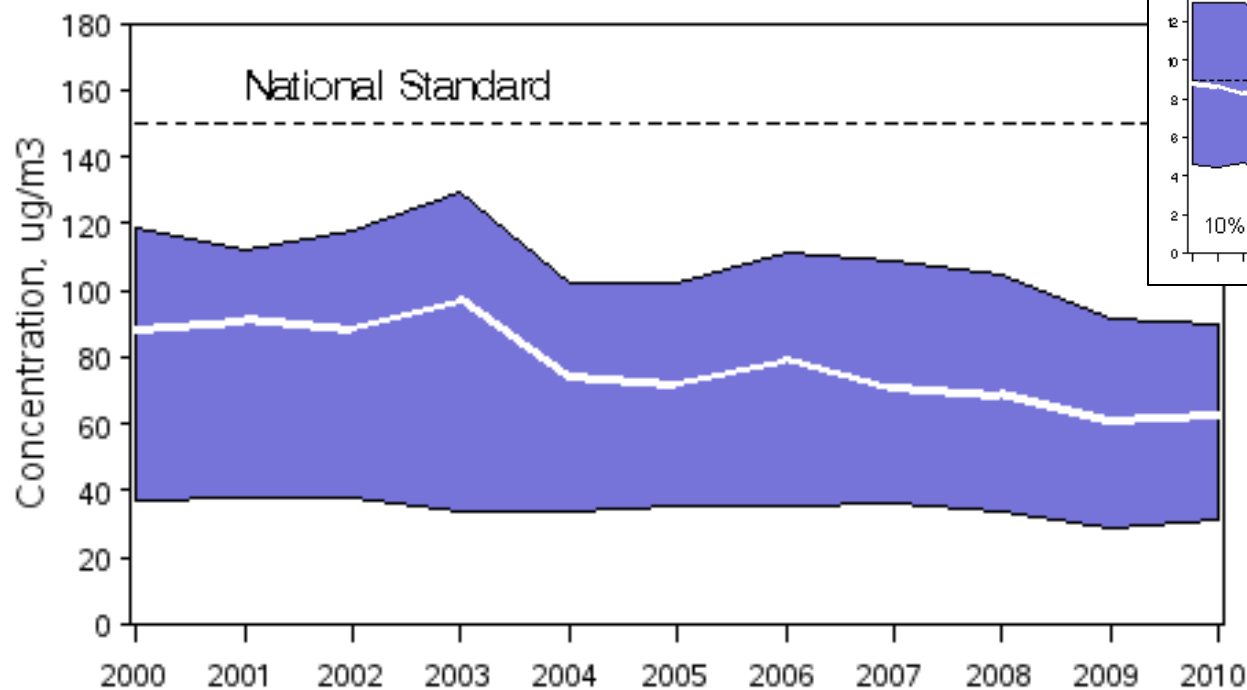


# National Particulate Data

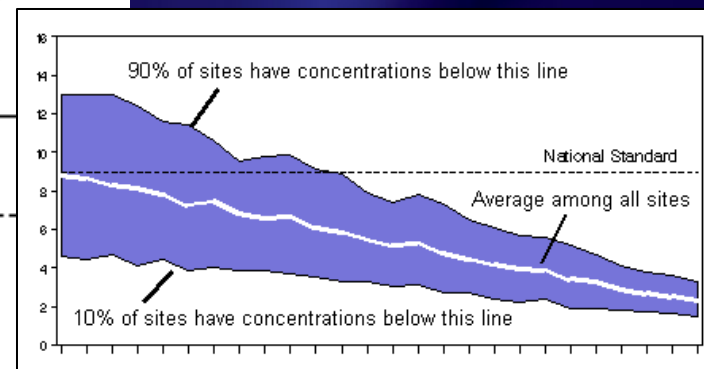
## PM10 Air Quality, 2000 - 2010

(Based on Annual 2nd Maximum 24-Hour Average)

National Trend based on 601 Sites



2000 to 2010 : 29% decrease in National Average





# Mobile Data

- 3 runs/day







All data points at <https://r5imt.net/pilsen/>



# Data

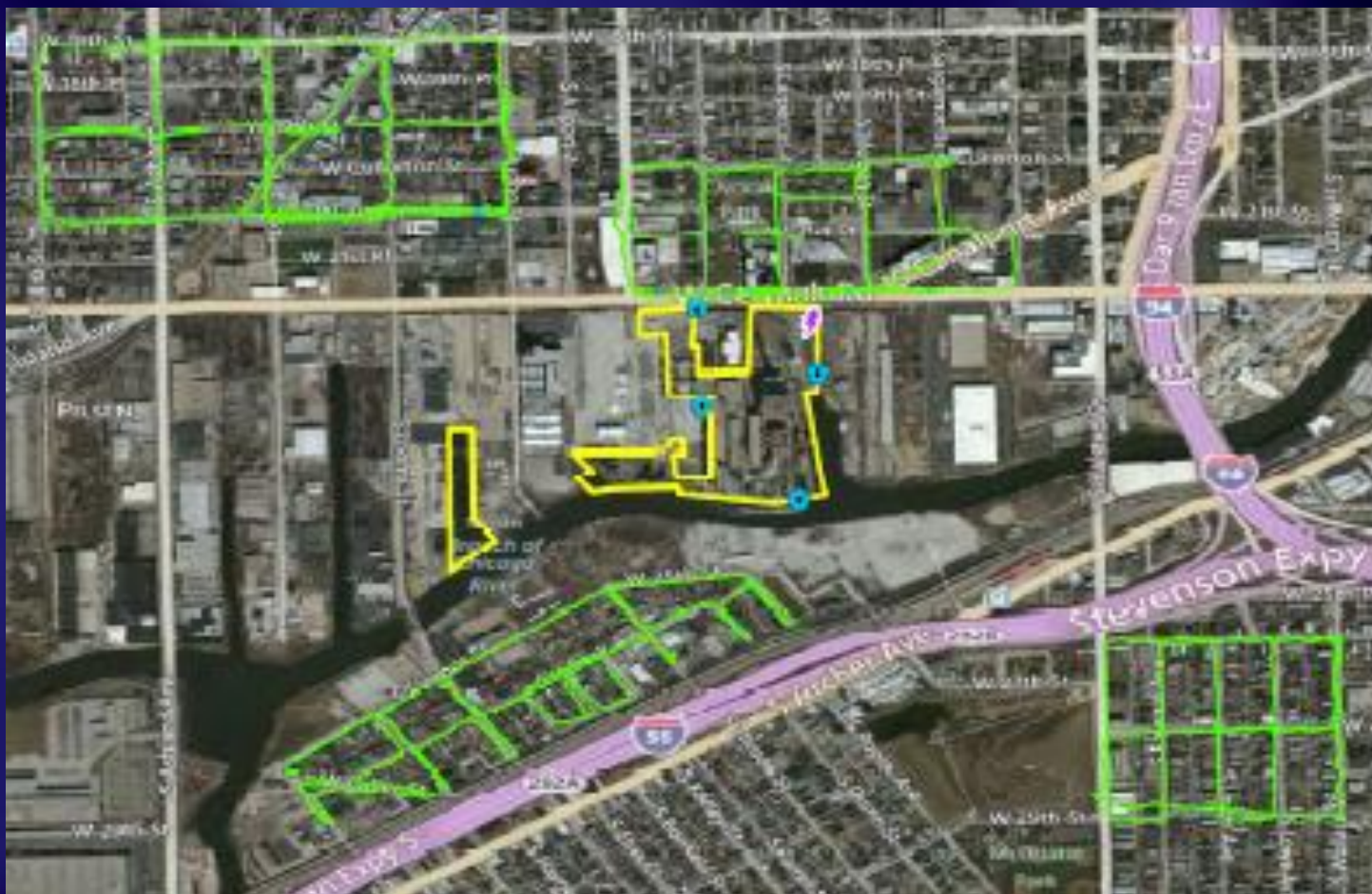
- Radiation screening
  - Background





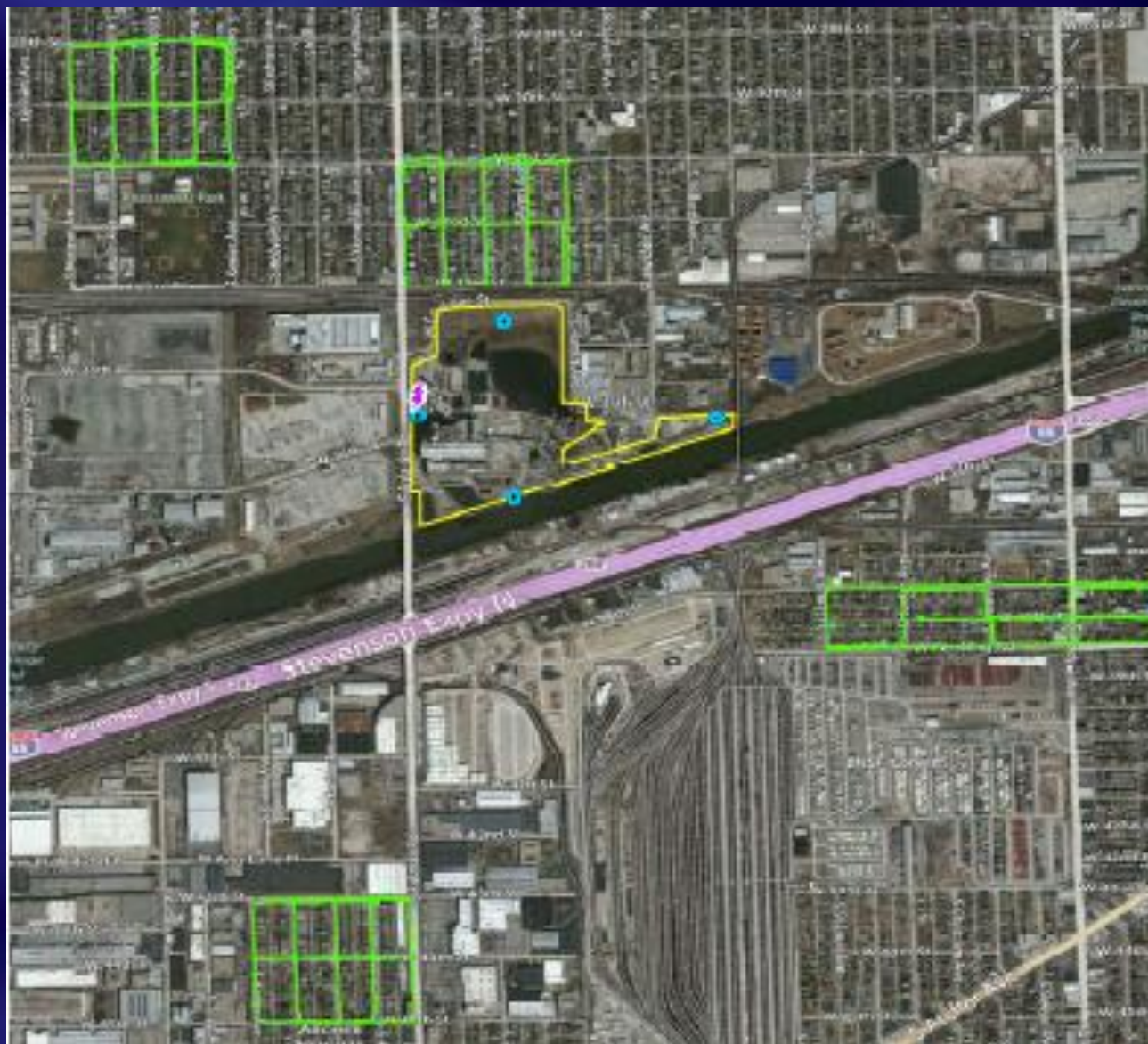


# Rad Screening Around Fisk





# Rad Screening Around Crawford

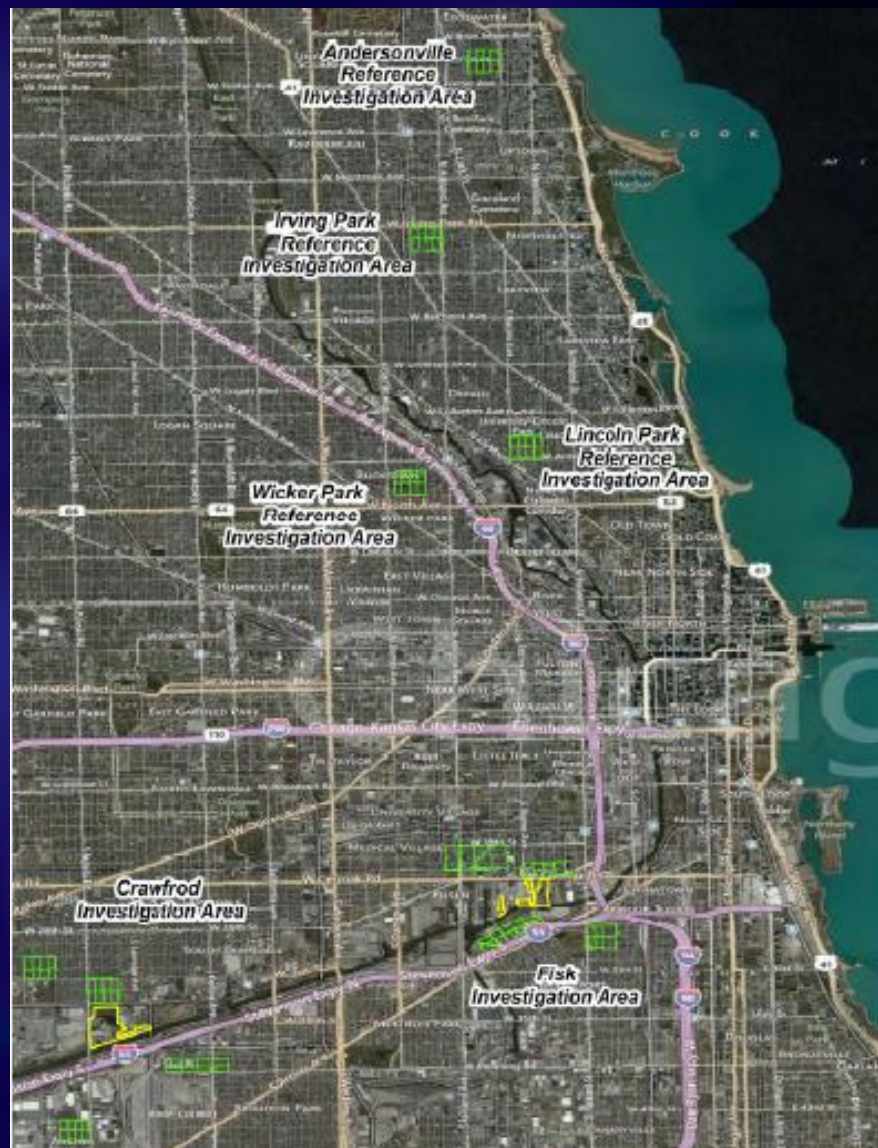






# Rad Screening Reference Areas

All data points at <https://r5imt.net/pilsen/>





# Results

## DUST

- Particulate (PM-10) monitoring in both stable & unstable conditions did not reveal levels of concern for dust from either site.
- Particulate (PM-10) levels are consistent with background dust levels found in urban areas.

## RADIATION

- Gamma radiation levels surrounding both sites are similar to reference neighborhoods.
- Gamma radiation levels are consistent with background levels found in urban areas.



# Outreach - Fact Sheets



## Air Testing Set Near Pilsen, Little Village Coal Plants

Fisk Station and Crawford Station Sites

Chicago, Illinois

November / December 2012

For more information  
For questions, comments or more  
information about tests near the Fisk  
and Crawford sites, contact:

**Paul Ruesch**  
On-Scene Coordinator  
312-886-7898  
rueschpaul@epa.gov

**Heriberto León**  
Community Involvement  
Coordinator  
312-886-6163  
leonherberto@epa.gov

Superfund Division  
77 W Jackson Blvd.  
Chicago, IL 60604

You may call the EPA toll-free at  
800-621-8431, weekdays,  
8:30 a.m. - 4:30 p.m.

Or visit:  
[www.epa.gov/region5/cleanup/pike](http://www.epa.gov/region5/cleanup/pike)  
nittlevillage

To keep the community better  
informed, EPA is working with:

Pilsen Environmental Rights and  
Reform Organization  
312-854-9247  
[www.pilsenperro.org](http://www.pilsenperro.org)

Little Village Environmental Justice  
Organization  
773-762-6991  
[info@lejo.org](mailto:info@lejo.org)



The Fisk Station is seen from a street in the Pilsen neighborhood.

The U.S. Environmental Protection Agency will be conducting air  
monitoring and radiation screening around Midwest Generation's Fisk  
Station and Crawford Station sites in December.

The EPA will monitor the air around the facilities and check for radiation  
in residential areas near the sites. This will help the EPA address concerns  
about human health and the environment in southwest Chicago's Pilsen  
and Little Village communities.

EPA will attempt to monitor the air on both windy days and calm days.  
This is expected to show how weather and site activity may affect dust  
levels. The air monitoring will only measure how much dust is around the  
perimeter of the sites. It will not show what is in the dust. If EPA finds a  
significant amount of dust is leaving the site, the Agency may do more  
tests to find out what is in the dust.

The radiation screening in residential areas near the two stations is in  
response to community concerns that radiation levels may be higher than  
what would normally be expected. The Pilsen and Little Village  
screenings will be compared to background readings of radiation from  
other Chicago residential areas. Unlike the air monitoring, the radiation  
screening will be done only once.



## Se examina el aire cerca de plantas de carbón en Pilsen y La Villita

Las estaciones de Fisk y Crawford

Chicago, Illinois

Noviembre / Diciembre 2012

Para más información  
Si tiene preguntas, comentarios o  
desea más información sobre el aire  
cerca de Fisk y Crawford, póngase  
en contacto con:

**Paul Ruesch**  
Coordinador de Acciones en  
Terreno  
312-886-7898  
rueschpaul@epa.gov

**Heriberto León**  
Coordinador de Participación  
Comunitaria  
312-886-6163  
leonherberto@epa.gov

Superfund Division  
77 W Jackson Blvd.  
Chicago, IL 60604

Puede llamar al número gratuito de  
la EPA, 800-621-8431, lunes a  
viernes, 8:30 a.m. - 4:30 p.m.

O visite:  
[www.epa.gov/region5/cleanup/pike](http://www.epa.gov/region5/cleanup/pike)  
nittlevillage

Para mantener a la comunidad  
mejor informada, la EPA  
colabora con:

Organización sobre Derechos y  
Reformas Ambientales en Pilsen  
312-854-9247  
[www.pilsenperro.org](http://www.pilsenperro.org)

Little Village Environmental Justice  
Organization  
773-762-6991  
[info@lejo.org](mailto:info@lejo.org)



La estación de Fisk, vista desde una calle en el barrio de Pilsen.

La Agencia de Protección Ambiental de EE.UU. (EPA por sus siglas en  
inglés) llevará a cabo monitoreo del aire y detección de radiación  
alrededor de las estaciones Fisk y Crawford de Midwest Generation en  
diciembre. La EPA realizará el monitoreo del aire alrededor de las  
instalaciones e investigará si hay radiación en las zonas residenciales  
cercanas a ellas. Con estas medidas la EPA procura abordar  
preocupaciones sobre la salud humana y el medio ambiente en las  
comunidades de Pilsen y La Villita en el suroeste de Chicago.

La EPA intentará monitorear el aire en días con viento y sin viento para  
ver cómo el tiempo y las actividades en las instalaciones podrían estar  
afectando los niveles de polvo. El monitoreo del aire sólo medirá la  
cantidad de polvo por el perímetro de los sitios y no lo que contiene el  
polvo. Si la EPA encuentra que sale una cantidad considerable de polvo  
de los sitios, la agencia podría hacer más pruebas para averiguar lo que  
tiene el polvo. La detección de radiación en áreas residenciales cerca  
de las dos estaciones responde a la preocupación de la comunidad de  
que los niveles de radiación podrían ser más altos de lo normal. Los  
análisis en Pilsen y La Villita se compararán con los de otras áreas  
residenciales de Chicago. A diferencia del monitoreo del aire, la  
detección de radiación se hará de una sola vez.





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## Environmental Issues in Chicago's Little Village & Pilsen Neighborhoods

EPA is coordinating with representatives from the City of Chicago Department of Public Health, Illinois Environmental Protection Agency, Illinois Department of Public Health, and the Agency for Toxic Substances and Disease Registry on a number of projects in Chicago's Pilsen and Little Village Neighborhoods. Here you can find consolidated information about the different environmental activities in the community.

- [Air Issues](#)
- Cleanup Sites
  - [Celotex Superfund Site](#)
  - [Loewenthal Metals Corp.](#) (former smelter)
  - [Midwest Generation Crawford Generating Station](#)
  - [Midwest Generation Fisk Generating Station](#)
  - [Peoples Gas 22nd Street Station](#) (former manufactured gas plant)
  - [Peoples Gas Crawford Station](#) (former manufactured gas plant)
- Environmental Justice
  - [View of Pilsen neighborhood from EJ Mapper](#)
  - [View of Little Village neighborhood from EJ Mapper](#)
  - [Search the EJ View Mapper](#)



## Region 5 Air and Radiation

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## Air Issues in Chicago's Pilsen Neighborhood

The EPA continues to be concerned about air pollution in the Pilsen neighborhood. EPA is evaluating air quality data gathered by two monitors in the community maintained by Illinois EPA and Cook County Department of Environmental Control.

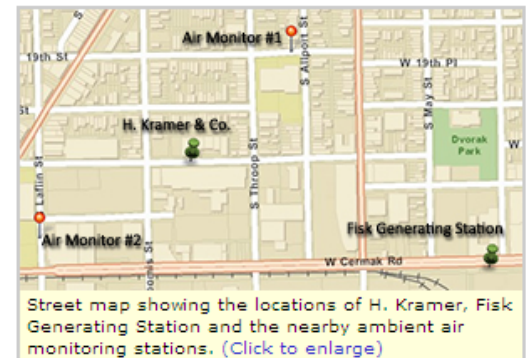
You will need Adobe Reader to view some of the files on this page. See [EPA's PDF page](#) to learn more.

### Air Quality System (AQS) Ambient Monitoring Data

- [Lead Monitoring in the Pilsen Neighborhood](#) - April 2011 
- [Monitoreo del plomo en el vecindario de Pilsen](#) - April 2011 
- [Ambient monitoring data from Air monitor #1 and #2 for Pilsen area January 2010 - September 2011 \(PDF\)](#) (4pp, 62K)
- [Ambient monitoring data monthly averages for Pilsen area January 2010 - September 2011 \(PDF\)](#) (1pp, 54K)

### More information about air emissions

- [AirData: Access to Air Pollution Data](#)



## Nonattainment Designation for the 2008 Lead National Ambient Air Quality Standard

- [Federal Register: Air Quality Designations for the 2008 Lead \(Pb\) National Ambient Air Quality Standards \(PDF\)](#) (24pp, 229K) Nov. 22, 2011
- [Illinois Area Designations for the 2008 Lead National Ambient Air Quality Standards \(PDF\)](#) (16pp, 1.6MB) Nov. 8, 2011
- [Response to Comments on the State and Tribal Designation Recommendations for the 2008 Lead \(Pb\) National Ambient Air Quality Standards \(NAAQS\) \(PDF\)](#) (14pp, 525K) October 2011
- [Fact Sheet Final Revisions to the National Ambient Air Quality Standards for Lead \(PDF\)](#) (6pp, 94K)
- [October 2008 Final National Ambient Air Quality Standards for Lead - General Overview \(PDF\)](#) (21pp, 778K)

### Enforcement Update



# Outreach Ideas

- Final Fact Sheet (same distribution)
- Final report (POLREP)
- Updated websites
- Community Availability Session
  - Loewenthal Metals
  - Pilsen Area Soils Assessment
  - Former Manufactured Gas Plants
  - Fisk/Crawford Air Monitoring





# Questions

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